# NASA Joint Sponsored Research Program

**Preliminary Report**

**Use of Space Act Authority to**
**Develop Joint Sponsored Research Projects (88 - 93)**

**Presented to**
**NASA Office of Advanced Concepts & Technology - Code CU**

**Program Implemented by**
**American Technology Initiative, Inc.**

## Additional JSR Program Reports Will Be Presented No Later Than June 30, 1994 Regarding ...

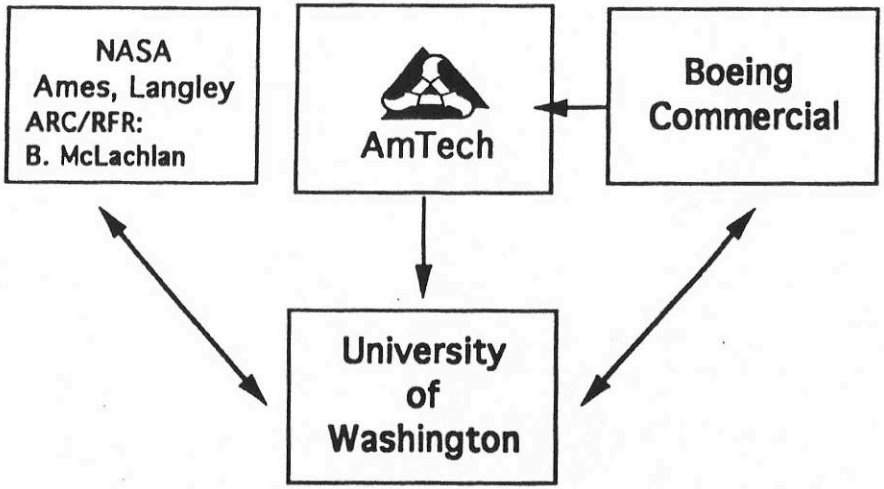
- Design of comprehensive JSR Program ... per NASA/AmTech MOA of 6/15/92
- Role and performance of third party, nonprofit as facilitator ... cooperative agreement NCC2-648 of May 15, 1992

# OUTLINE

- Background
- Objectives of JSR Program Project Efforts
- Results and Findings
- Conclusions
- Recommendations
- Appendices
  - JSR Program Project Status Report: October, 1993

# Video Luminescent Barometry ("Paints")

AGREEMENT STRUCTURE




| RESOURCE CONTRIBUTIONS | Cash | In-kind |
|---|---|---|
| NASA | $462,700 | 2 full time researchers/ analysts; yearly test in large tunnel; 16 pieces of equipment loaned to UW |
| University of Washington | | $143,200 overhead reduction $77,800 for 1 graduate student and 4 months professor salary |
| Boeing | $165,000 | 1 full time research/analyst 1 yearly test in transonic tunnel |

| | ROLE | INTELLECTUAL PROPERTY RIGHTS | MISSION/COMMERCIAL APPLICATION |
|---|---|---|---|
| NASA | Small scale sensor test<br>Large scale sensor test<br>Software development<br>Protocol development | Fully paid, government use license<br>Royalty/fee reimbursement for commercial test use | Government - data generation for government aircraft development<br>Commercial - service for reimbursable wind tunnel use |
| University of Washington | Basic chemistry research<br>Sensor development<br>Sensor bench test<br>Project management | Patent holder for sensor<br>Licensor of sensor for usage fees | Investigating market demand for separate spin off company to support product |
| Boeing | Large scale test<br>Comparison w/alternative systems | Fully paid, unlimited commercial use license | Generate pressure & temperature data for aircraft development<br>Reduce by 80% use of pressure tops |